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<110> Raymond, Christopher K.  
<120> METHODS FOR QUANTITATING SMALL RNA MOLECULES  
<130> ROSA-1-27563  
<150> US 60/647,178  
<151> 2005-01-25  
<150> PCT/US06/002591  
<151> 2006-01-25  
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&lt;223&gt; Primer

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29

&lt;210&gt; 66

&lt;211&gt; 16

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&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

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caaagtgcctt acagtg

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&lt;210&gt; 67

&lt;211&gt; 29

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&lt;213&gt; Artificial Sequence

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&lt;223&gt; Primer

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catgatcagc tgggccaaga tcagttttg

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&lt;210&gt; 68

&lt;211&gt; 15

&lt;212&gt; DNA

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tgtgcaaadc tatgc

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&lt;210&gt; 69

&lt;211&gt; 30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

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16

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19

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17

<210> 101  
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14

<210> 103  
 <211> 29  
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17

<210> 105  
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tgtaaacatc cttgac

16

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<211> 30

<212> DNA

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<400> 107

catgatcagc tgggccaaga cagctatgcc

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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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ggcaagatgc tggc

14

<210> 109

<211> 30

<212> DNA

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<400> 109

catgatcagc tgggccaaga gcaacttagt

30

<210> 110

<211> 17

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 <223> Nucleotide at position 6 and/or 8 may be modified by  
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17

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29

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30

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<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 114

tggcagtgtc ttag

14

&lt;210&gt; 115

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 115

catgatcagc tgggccaaga caatcagcta

30

&lt;210&gt; 116

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3)..(5)

<223> Nucleotide at position 3 and/or 5 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 116

taggcagtgt catt

14

&lt;210&gt; 117

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 117

catgatcagc tgggccaaga gcaatcagct

30

&lt;210&gt; 118

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

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<220>

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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
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<400> 118

aggcagtgtgta gtta

14

<210> 119

<211> 30

<212> DNA

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<223> Primer

<400> 119

catgatcagc tgggccaaga caggccggga

30

<210> 120

<211> 15

<212> DNA

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<220>

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<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 120

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15

<210> 121

<211> 30

<212> DNA

<213> Artificial Sequence

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<400> 121

catgatcagc tgggccaaga ctacctgcac

30

<210> 122

<211> 14

<212> DNA

<213> Artificial Sequence

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<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 123  
 <211> 30  
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<220>  
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<400> 123  
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30

<210> 124  
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<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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19

<210> 125  
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<220>  
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<400> 125  
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30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety  
  
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 <223> Nucleotide at position 4 and/or 7 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety  
  
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<210> 129  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 131  
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<400> 131  
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14

<210> 133  
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<220>  
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<400> 133  
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<210> 134  
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<210> 137  
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 catgatcagc tgggccaaga tcatagccct 30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

<210> 139  
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<220>  
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<400> 139  
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30

<210> 140  
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<220>  
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 <223> Nucleotide at position 2 and/or 6 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

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<400> 141  
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<223> Nucleotide at position 4 and/or 6 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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16

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30

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15

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28

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

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30

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14

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<400> 149  
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30

<210> 150  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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 <400> 153  
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<400> 154  
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14

<210> 155  
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<400> 155  
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<400> 157  
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28

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cattattact tttggtacg

19

<210> 159  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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14

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30

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14

<210> 163  
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<220>  
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30

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14



<210> 167  
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<220>  
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30

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 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 168  
 cagtgcaatg ttaaaag

17

<210> 169  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 169  
 catgatcagc tgggccaaga atgccctttc

30

<210> 170  
 <211> 14  
 <212> DNA  
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<220>  
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<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 170  
 cagtgcaatg atga

14

<210> 171  
 <211> 30  
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<220>  
 <223> Primer

<400> 171  
 catgatcagc tgggccaaga cgaccatggc

30

<210> 172  
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<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 172  
 taacagtcta cagcc

15

<210> 173  
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<400> 173  
 catgatcagc tgggccaaga acagctgggtt

30

<210> 174  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 174  
 ttggtcccct tcaa

14

<210> 175

<211> 30  
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<400> 175  
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30

<210> 176  
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<220>  
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 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 176  
 ttggtcccct tcaa

14

<210> 177  
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<400> 177  
 catgatcagc tgggccaaga ccctctggtc

30

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 178  
 tgtgactggt tgac

14

<210> 179  
 <211> 30

<212> DNA  
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<220>  
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<400> 179  
 catgatcagc tgggccaaga tcacatagga

30

<210> 180  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 180  
 tatggctttt tattcct

17

<210> 181  
 <211> 30  
 <212> DNA  
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<220>  
 <223> Primer

<400> 181  
 catgatcagc tgggccaaga cacataggaa

30

<210> 182  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 182  
 tatggctttt cattcc

16

<210> 183  
 <211> 30  
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<220>

<223> Primer

<400> 183

catgatcagc tgggccaaga tccatcatca

30

<210> 184

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<220>

<221> misc\_feature

<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 184

actccatttg ttttgatg

18

<210> 185

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 185

catgatcagc tgggccaaga ctacgcgtat

30

<210> 186

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<220>

<221> misc\_feature

<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 186

tattgcttaa gaatacgc

18

<210> 187

<211> 29

<212> DNA

<213> Artificial Sequence

<220>  
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<400> 187  
 catgatcagc tgggccaaga cggcctgat

29

<210> 188  
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 <221> misc\_feature  
 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 188  
 agctggtgtt gtga

14

<210> 189  
 <211> 30  
 <212> DNA  
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<220>  
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<400> 189  
 catgatcagc tgggccaaga agacacgtgc

30

<210> 190  
 <211> 14  
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<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 190  
 tctacagtgc acgt

14

<210> 191  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 191

catgatcagc tgggccaaga ctaccatagg

30

&lt;210&gt; 192

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 192

agtggtttta ccct

14

&lt;210&gt; 193

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 193

catgatcagc tgggccaaga ccattcttta

29

&lt;210&gt; 194

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (4)..(7)

<223> Nucleotide at position 4 and/or 7 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 194

taacactgtc tggtaa

16

&lt;210&gt; 195

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Primer

<400> 195  
catgatcagc tgggccaaga tccataaa

28

<210> 196  
<211> 16  
<212> DNA  
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<220>  
<223> Primer

<220>  
<221> misc\_feature  
<222> (4)..(6)  
<223> Nucleotide at position 4 and/or 6 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 196  
tgtagtggtt cctact

16

<210> 197  
<211> 28  
<212> DNA  
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<220>  
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<400> 197  
catgatcagc tgggccaaga tgagctac

28

<210> 198  
<211> 15  
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<220>  
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<220>  
<221> misc\_feature  
<222> (2)..(4)  
<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 198  
tgagatgaag cactg

15

<210> 199  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer



<400> 199  
catgatcagc tgggccaaga ctagtacat

29

<210> 200  
<211> 16  
<212> DNA  
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<220>  
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<220>  
<221> misc\_feature  
<222> (3)..(9)  
<223> Nucleotide at position 3 and/or 5 and/or 9 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 200  
tacagtatag atgatg

16

<210> 201  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 201  
catgatcagc tgggccaaga aagggattc

29

<210> 202  
<211> 14  
<212> DNA  
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<220>  
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<220>  
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<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 202  
gtccagtttt ccca

14

<210> 203  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 203  
catgatcagc tgggccaaga aacccatg

28

<210> 204  
<211> 16  
<212> DNA  
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<220>  
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<220>  
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<222> (2)..(4)  
<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 204  
tgagaactga attcca

16

<210> 205  
<211> 30  
<212> DNA  
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<220>  
<223> Primer

<400> 205  
catgatcagc tgggccaaga gcagaagcat

30

<210> 206  
<211> 14  
<212> DNA  
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<220>  
<223> Primer

<220>  
<221> misc\_feature  
<222> (2)..(4)  
<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 206  
gtgtgtggaa atgc

14

<210> 207  
<211> 29  
<212> DNA  
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<220>  
<223> Primer

<400> 207

catgatcagc tgggccaaga acaaagttc

29

<210> 208  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
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<220>  
 <221> misc\_feature  
 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 208  
 tcagtgcact acagaact

18

<210> 209  
 <211> 29  
 <212> DNA  
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<220>  
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<400> 209  
 catgatcagc tgggccaaga acaaagttc

29

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<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 210  
 tcagtgcattc acag

14

<210> 211  
 <211> 29  
 <212> DNA  
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<220>  
 <223> Primer

<400> 211  
 catgatcagc tgggccaaga ggagtgaag

29

<210> 212  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 212  
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14

<210> 213  
 <211> 28  
 <212> DNA  
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<220>  
 <223> Primer

<400> 213  
 catgatcagc tgggccaaga cactggta

28

<210> 214  
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<220>  
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<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 214  
 tctcccaacc cttg

14

<210> 215  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 215  
 catgatcagc tgggccaaga cctcaagga

29

<210> 216  
 <211> 15  
 <212> DNA  
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<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 216  
 actagactga agctc

15

<210> 217  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 217  
 catgatcagc tgggccaaga cccaagttc

29

<210> 218  
 <211> 14  
 <212> DNA  
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<220>  
 <223> Primer

<220>  
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 <222> (2)..(4)  
 <223> Nucleotide at position 2 and/or 4 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 218  
 tcagtgcagc acag

14

<210> 219  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 219  
 catgatcagc tgggccaaga tcacttttg

29

<210> 220  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<220>  
 <221> misc\_feature  
 <222> (4)..(7)  
 <223> Nucleotide at position 4 and/or 7 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 220  
 ttgcatagtc acaaaa

16

<210> 221  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 221  
 catgatcagc tgggccaaga aatagggtca

29

<210> 222  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<220>  
 <221> misc\_feature  
 <222> (6)..(8)  
 <223> Nucleotide at position 6 and/or 8 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 222  
 aatcatacac ggttgac

17

<210> 223  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 223  
 catgatcagc tgggccaaga cgaaggcaa

29

<210> 224

<211> 15  
 <212> DNA  
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<220>  
 <223> Primer

<220>  
 <221> misc\_feature  
 <222> (3)..(8)  
 <223> Nucleotide at position 3 and/or 8 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 224  
 taggttatcc gtggt

15

<210> 225  
 <211> 28  
 <212> DNA  
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<220>  
 <223> Primer

<400> 225  
 catgatcagc tgggccaaga cccctatc

28

<210> 226  
 <211> 20  
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<220>  
 <223> Primer

<220>  
 <221> misc\_feature  
 <222> (3)..(5)  
 <223> Nucleotide at position 2 and/or 5 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 226  
 ttaatgctaa tcgtgatagg

20

<210> 227  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 227  
 catgatcagc tgggccaaga actcaccga

29

<210> 228  
 <211> 16

<212> DNA  
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<220>  
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<220>  
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 <222> (3)..(7)  
 <223> Nucleotide at position 3 and/or 7 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 228  
 aacattcaac gctgtc

16

<210> 229  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 229  
 catgatcagc tgggccaaga actcaccga

29

<210> 230  
 <211> 16  
 <212> DNA  
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<220>  
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<220>  
 <221> misc\_feature  
 <222> (3)..(7)  
 <223> Nucleotide at position 3 and/or 7 may be modified by  
 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 230  
 aacattcaac ctgtcg

16

<210> 231  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 231  
 catgatcagc tgggccaaga tagttggcaa

30

<210> 232  
 <211> 15  
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<213> Artificial Sequence

<220>

<223> Primer

<220>

<221> misc\_feature

<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 232

tggttctaga cttgc

15

<210> 233

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 233

catgatcagc tgggccaaga tgtgagttc

29

<210> 234

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<220>

<221> misc\_feature

<222> (4)..(6)

<223> Nucleotide at position 4 and/or 6 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 234

tttggcaatg gtag

14

<210> 235

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 235

catgatcagc tgggccaaga cagtgaatt

29

<210> 236

<211> 14

<212> DNA

<213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 236

tatggcactg gtag

14

&lt;210&gt; 237

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 237

catgatcagc tgggccaaga acccttatc

29

&lt;210&gt; 238

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 238

tggacggaga actg

14

&lt;210&gt; 239

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 239

catgatcagc tgggccaaga aagcccaaa

29

&lt;210&gt; 240

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3)..(10)

<223> Nucleotide at position 3 and/or 5 and/or 10 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 240

caaagaattc tccttttg

19

&lt;210&gt; 241

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 241

catgatcagc tgggccaaga cggtgcaac

30

&lt;210&gt; 242

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 242

tcgtgtcttg tggt

14

&lt;210&gt; 243

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 243

catgatcagc tgggccaaga accctccacc

30

&lt;210&gt; 244

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Primer

<220>

<221> misc\_feature

<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 244

catcccttgc atgg

14

<210> 245

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 245

catgatcagc tgggccaaga actgatatc

29

<210> 246

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<220>

<221> misc\_feature

<222> (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 246

gtgcctactg agct

14

<210> 247

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 247

catgatcagc tgggccaaga acctaatat

29

<210> 248

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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16

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<400> 257  
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29

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30

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30

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<210> 263  
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 <212> DNA  
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<223> Nucleotide at position 3 and/or 5 may be modified by  
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<400> 264

ttcaccacct tctc

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<210> 265

<211> 28

<212> DNA

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<400> 265

catgatcagc tgggccaaga cctatctc

28

<210> 266

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<222> (2)..(4)

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<400> 266

ggtccagagg ggag

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<210> 267

<211> 29

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<400> 267

catgatcagc tgggccaaga aaccaatgt

29

<210> 268

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<222> (2)..(4)

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catgatcagc tgggccaaga gaacaggtta

29

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14

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<400> 271  
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ROSA127563.ST25.txt  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 272  
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<220>  
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<400> 275  
catgatcagc tgggccaaga gtcatt 29

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17

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<220>  
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<223> Nucleotide at position 2 and/or 4 and/or 10 may be modified by  
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<400> 278  
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15

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29

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<400> 280  
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<210> 281  
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<220>  
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<400> 281  
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<220>  
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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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<220>  
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<400> 283  
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<400> 284

tccttcattc cacc

14

<210> 285  
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<400> 285  
 catgatcagc tgggccaaga ccacaca

27

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<400> 286  
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18

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<400> 287  
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33

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17

<210> 289  
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 <212> DNA  
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<220>  
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<400> 289  
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30

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14

<210> 291  
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<400> 291  
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29

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15

<210> 293  
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<220>  
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<400> 293  
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29

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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16

<210> 295  
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<400> 295  
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<400> 296  
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14



<210> 297  
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<220>  
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<400> 297  
 catgatcagc tgggccaaga ctgcctgtct

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14

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<400> 299  
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29

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17

<210> 301

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<220>  
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29

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

<210> 303  
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<400> 303  
 catgatcagc tgggccaaga atccaatca

29

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18

<210> 305  
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<220>  
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<400> 305  
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29

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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16

<210> 307  
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30

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14

<210> 309  
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<220>

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<400> 309

catgatcagc tgggccaaga gaaacccag

29

<210> 310

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<400> 310

agctacattg tctgc

15

<210> 311

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<212> DNA

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<400> 311

catgatcagc tgggccaaga gagacca

28

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14

<210> 313

<211> 30

<212> DNA

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety  
  
 <400> 316  
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 <210> 317  
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 <213> Artificial Sequence

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&lt;223&gt; Primer

&lt;400&gt; 317

catgatcagc tgggccaaga acaggattg

29

&lt;210&gt; 318

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 318

agggccccc ctcaa

15

&lt;210&gt; 319

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 319

catgatcagc tgggccaaga atgtatgtg

29

&lt;210&gt; 320

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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&lt;223&gt; Primer

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2)..(4)

<223> Nucleotide at position 2 and/or 4 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

&lt;400&gt; 320

tggtttaccg tccc

14

&lt;210&gt; 321

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Primer

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30

<210> 322  
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<220>  
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<220>  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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17

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<220>  
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<400> 323  
catgatcagc tgggccaaga aaagcaagta

30

<210> 324  
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<212> DNA  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

<210> 325  
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<220>  
<223> Primer

<400> 325  
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30

<210> 326  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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taagtgcctc catgt

15

<210> 327  
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<212> DNA  
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<220>  
<223> Primer

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catgatcagc tgggccaaga agaaagcact

30

<210> 328  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 328  
actttaacat ggaagtg

17

<210> 329  
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<220>  
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17

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16

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tgctgactcc tagt

14

&lt;210&gt; 367

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 367

catgatcagc tgggccaaga agaggcaggc

30

&lt;210&gt; 368

&lt;211&gt; 14

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&lt;221&gt; misc\_feature

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&lt;400&gt; 368

tgtctgccccg catg

14

&lt;210&gt; 369

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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&lt;223&gt; Primer

&lt;400&gt; 369

catgatcagc tgggccaaga tacagatgga

30

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<223> Nucleotide at position 2 and/or 5 may be modified by  
2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

<400> 394  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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acttcacctg gtccacta

18

<210> 409  
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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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31

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18

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19

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

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 2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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16

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27

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17

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14

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14

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catgatcagc tgggccaaga accgatttca

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16

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28

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14

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18

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28

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17

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29

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17

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14

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2'-O,4'-C-methylene-beta-D-ribofuranosyl moiety

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15

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14

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ttcagctcct atatg

15

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